

#### THE NEW YORK ACADEMY OF SCIENCES

Since 1817, the New York Academy of Sciences has been promoting the national and international advancement of science while serving as a focal point of scientific and technological activity. Its goals are to:

- Advance scientific research and discovery;
- · Publish and distribute the results of research:
- Promote science education;
- Provide a forum for the discussion and interpretation of topical issues in science and science policy; and
- Enhance public understanding of science and its implications for society.

The Academy has an international membership of approximately 38,000 scientists worldwide, representing more than 100 countries.

#### **ACADEMY CONFERENCES**

The Academy's central scientific activity is organizing conferences and symposia that gather leading researchers to discuss current scientific subjects.

The Academy sponsors approximately 20 international conferences each year in cities all over the world. More than 2,300 scientists attend these meetings in addition to the more than 500 scientists who present papers on the most recent developments in their fields. Speakers have traveled from 26 different countries to discuss developments in such diverse fields as biology, chemistry, mathematics, ethics and physics.

#### **ANNALS**

The Annals are the major scientific publication of the Academy and comprise the proceedings of all the conferences held by the Academy as well as those of other selected scientific meetings. Containing up-to-date studies and research findings, these volumes are disseminated to libraries of scientific, medical, and educational institutions worldwide and are made available to Academy members and individual buyers. About 30 volumes of the Annals are published each year.

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#### CONFERENCE THEME

The conference will deal with strategies for inhibition of matrix metalloproteinases which have been implicated in human disease, including collagenase, gelatinase, and stromelysin. These enzymes appear to be pathologically increased in a wide variety of disease states including rheumatoid and osteoarthritis, periodontal disease, diabetes, ophthalmologic conditions, neoplasia, dermatologic disorders, metabolic bone disease, and orthopaedic conditions. Identification of agents which might inhibit collagenase and other MMPs has long been a reasonable therapeutic goal for modulation of connective tissue degradation. In view of the wide range of potential applications for MMP inhibitors, and the diversity of theoretically useful agents, a multidisciplinary conference to discuss mechanisms of action and models for drug development is expected to contribute substantially to progress in the field.

We acknowledge educational grants from the following:

#### **CONFERENCE SUPPORTERS**

Collagenex, Inc.
Pfizer Labs
R.J. Reynolds Tobacco Company

#### **CONFERENCE CONTRIBUTORS**

Abbott Laboratories
Block Drug Company, Inc.
Boehringer Ingelheim Pharmaceuticals, Inc.
Glycomed
Hoffmann-La Roche Inc.
Miles, Inc.
OsteoArthritis Sciences, Inc.
SmithKline Beecham Pharmaceuticals
Syntex Research
The Council for Tobacco Research-U.S.A., Inc.
The Procter & Gamble Company
The Upjohn Company
Warner-Lambert Consumer Health Products Group
Warner-Lambert/Parke-Davis
Wyeth-Ayerst Research

Contributions received after the printing of this program will be acknowledged in the Abstract Booklet distributed at the conference and in the Annal resulting from the conference.

#### ACCME CREDIT

The New York Academy of Sciences and the Long Island Jewish Medical Center are accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

This conference has been designated as a continuing medical education activity for 22 credit hours in Category 1 of the Physician's Recognition Award of the American Medical Association by either The New York Academy of Sciences or Long Island Jewish Medical Center.

#### CONFERENCE SITE

The Wyndham Harbour Island Hotel is on the north shore of Harbour Island, a 177 acre urban development across Garrison Channel from downtown Tampa. It is a 10 minute walk or a one minute ride on "The People Mover" (an elevated air-cushion train) to the central business district.

The interchange of I-275 and I-4 is close by and Tampa International Airport is only 15 minutes away. If you are driving, parking is available for a \$5.00 overnight charge. Daily parking is also available on an hourly basis.

A tropically landscaped heated pool, overlooking the waterfront, is available on the property. There are guest privileges at the Harbour Island Athletic Club, featuring 20 tennis courts, 5 racquetball courts, 2 squash courts, lap pool, nautilus and hydro fitness room, aerobics, gymnasium and health club. Golf, tennis, boating and fishing charters can be arranged.

The Wyndham Harbour Island Hotel has many area attractions nearby: Old Hyde Park—5 minutes, Ybor City—10 minutes, Tampa Stadium—15 minutes, Adventure Island—20 minutes, Busch Gardens—20 minutes, Derby Lanes—20 minutes, Tampa Bay Downs—25 minutes, Gulf Beaches—30 minutes, Boardwalk and Baseball—45 minutes, Cypress Gardens—45 minutes, Walt Disney World—1 hour, Epcot Center—1 hour, and Sea World—1 hour.

#### GROUND TRANSPORTATION INFORMATION

#### Shuttle Service

The Wyndham Harbour Island Hotel is pleased to provide complimentary transportation to and from the Tampa International Airport from 7:00 AM to 11:00 PM upon request. When you arrive at the airport, a courtesy phone is available in the baggage claim area for you to call the hotel and make arrangements for your pick up.

## Wednesday January 19, 1994

5:00-8:30 PM Registration

Garden

6:30-8:30 PM Welcome Reception

**Terrace** 

## Thursday January 20, 1994

All Scientific Sessions are held in Ballroom I.
Posters will be on display in the Ballroom Foyer.

8:00 AM-4:45 PM Registration

Garden

8:30-8:45 AM Welcome Remarks and Introduction Robert A. Greenwald, M.D.

Conference Chair

8:45 AM-12:00 PM Session I

#### Overview

Session Chair:

Constance Brinckerhoff, Ph.D. Department of Biochemistry Dartmouth Medical School Hanover, New Hampshire

Each paper in this session includes 20 minutes for presentation followed by 10 minutes for discussion.

## 8:45 1. Keynote Address: Clinical Importance of MMPs and Inhibitors

Stephen M. Krane, M.D.
Department of Medicine
Harvard Medical School
Massachusetts General Hospital
Boston, Massachusetts

#### 9:15 2. The Family of MMPs

J. Frederick Woessner, Jr., Ph.D.

Department of Biochemistry and Molecular Biology
University of Miami
School of Medicine
Miami, Florida

9:45 3. Structure-Function Relations in MMPs.

Harold Van Wart, Ph.D.

Institute of Biochemistry and Cell Biology
Syntex Discovery Research
Palo Alto, California

#### 10:15-10:45 AM Intermission

10:45 4. Regulation of MMP Activity

Gillian Murphy, Ph.D.

Department of Cell and Molecular Biology
Strangeways Research Laboratory
Cambridge, England

11:15 5. Regulation of MMP Expression

Lynn Matrisian, Ph.D.

Department of Cell Biology

Vanderbilt University

Nashville, Tennessee

11:45 AM-12:00 PM General Discussion

12:00-1:20 PM Conference Luncheon Terrace

#### 1:20-4:45 PM Session II

#### **TIMP-Mechanisms and Applications**

Session Chair:

Gillian Murphy, Ph.D.
Department of Cell and Molecular Biology
Strangeways Research Laboratory
Cambridge, England

Each paper in this session includes 15 minutes for presentation followed by 5 minutes for discussion.

1:20 6. Induction of TIMP

Christopher M. Overall, Ph.D.

Department of Clinical Dental Sciences
University of British Columbia

Vancouver, Canada

1:40 7. TIMP in Tumor Progression: A Structure-Function Approach David Denhardt, Ph.D.

Department of Biological Sciences Rutgers University Piscataway, New Jersey

2:00 8. Mechanism of TIMP-MMP Interaction

Michael J. Banda, Ph.D.
Laboratory of Radiobiology and
Environmental Health
University of California, San Francisco
San Francisco, California

2:20 9. Role of TIMP and MMP Inhibition in Preventing Connective Tissue Breakdown

Tim E. Cawston, Ph.D. Rheumatology Research Unit Addenbrooke's Hospital Cambridge, England

2:40-3:10 PM Intermission

# 3:10 10. Dental Applications of TIMPs Henning Birkedal-Hansen, D.D.S. Department of Oral Biology University of Alabama School of Dentistry

Birmingham, Alabama

3:30 11. TIMP and Stromelysin Levels in Tissues

Michael W. Lark, Ph.D.

Department of Biochemical and Molecular Pathology

Merck Research Laboratories

Rahway, New Jersey

3:50-4:45 PM General Discussion

4:45-6:45 PM Poster Session and Reception

Ballroom Foyer

Poster Presenters will be available for discussion of posters at this time.

## Friday January 21, 1994

7:30 AM-5:00 PM Registration Garden

8:00 AM-12:10 PM Session III

Tetracyclines—Dental

Session Chair:

Lorne M. Golub, D.M.D. Conference Chair

8:00 12. Tetracyclines as MMP Inhibitors in Periodontal Disease

Lorne M. Golub, D.M.D. Conference Chair

Each paper includes 15 minutes for presentation followed by 5 minutes for discussion, except from 9:05 to 9:25 AM.

8:45 13. Effect of Tetracyclines on Salivary and GCF Collagenase

Timo Sorsa, D.D.S., Ph.D. Department of Periodontology University of Helsinki Helsinki, Finland

9:05 14. Clinical Experience: Adult Periodontitis

Seb G. Ciancio, D.D.S.
Department of Periodontology and Pharmacology
State University of New York at Buffalo
Schools of Medicine and Dentistry

Buffalo, New York

9:15 15. Inhibition of Oral Epithelial Cell MMPs by Tetracyclines

V.J. Uitto, D.D.S., Ph.D. Department of Oral Biology University of British Columbia Vancouver, Canada

## 9:25 16. Diagnostic Accuracy of Collagenase in Periodontitis

Christopher McCulloch, D.D.S., Ph.D. Department of Dentistry University of Toronto Toronto, Canada

### 9:45 17. Modulation of Bone Resorption

Barry R. Rifkin, D.D.S., Ph.D. Division of Basic Sciences New York University College of Dentistry New York, New York

#### 10:05-10:30 AM General Discussion

10:30-11:00 AM Intermission

11:00 AM-12:10 PM Session IV

#### Tetracyclines—Medical

Session Chair:

Robert A. Greenwald, M.D. Conference Chair

11:00 18. Studies of MMP Inhibition in Animal and Human Arthritis

Robert A. Greenwald, M.D. Conference Chair

Each paper includes 15 minutes for presentation followed by 5 minutes for discussion.

11:30 19. Canine Osteoarthritis Models

Kenneth D. Brandt, M.D.
Department of Medicine and Rheumatology
Indiana University
School of Medicine
Indianapolis, Indiana

11:50 20. Application of Peptide-Based MMP Inhibitors in Corneal Ulceration

Robert D. Gray, Ph.D.
Department of Biochemistry
University of Louisville
School of Medicine
Louisville, Kentucky

12:10-1:15 PM Conference Luncheon
Terrace

1:15-5:00 PM Session V

#### MMPs and Inhibitors in Cancer/Metastasis

Session Chair:

James P. Quigley, Ph.D.
Department of Pathology
State University of New York at Stony Brook
Stony Brook, New York

1:15 21. Overview

James P. Quigley, Ph.D. Session Chair

Each paper in this session includes 15 minutes for presentation followed by 5 minutes for discussion.

1:30 22. Clinical Trials of a Low MW Inhibitor in Cancer Peter D. Brown, D.Phil.

Department of Cancer Biology

British Bio-Technology Ltd.

Oxford, England

1:50 23. TIMP Inhibition of Tumor Invasion and Metastasis

Yves A. De Clerck, M.D. Division of Hematology-Oncology University of Southern California Children's Hospital of Los Angeles Los Angeles, California

#### 2:10 24. Expression of TIMP

Andrew J.P. Docherty, Ph.D. Department of Oncology CellTech Ltd. Slough, England

2:30 25. Genetic Manipulation of TIMP-2 in Human Melanoma Cells: Modulation of the Invasive Phenotype

> William Stetler-Stevenson, M.D. Laboratory of Pathology National Cancer Institute Bethesda, Maryland

#### 2:50-3:15 PM Intermission

3:15 26. Monitoring Metastasis by Assay of MMPs and MMP-Inhibitor Complexes

Stanley Zucker, M.D.

Department of Medicine
State University of New York at Stony Brook
Veterans Affairs Medical Center
Stony Brook, New York

3:45 27. Inhibition of Angiogenesis/Neoplasia by Tetracyclines

Henry Brem, M.D.
Department of Neurosurgery
Johns Hopkins University
School of Medicine
Baltimore, Maryland

4:15-5:00 PM General Discussion

5:00-7:30 PM Dinner Break (on own)

#### 7:30-9:30 PM Round Table Discussion

### Design of Clinical Trials for Study of MMP Inhibitors

#### Chair:

Stephen M. Krane, M.D.
Department of Medicine
Harvard Medical School
Massachusetts General Hospital
Boston, Massachusetts

#### Introductory Remarks:

Robert A. Greenwald, M.D. Conference Chair

#### Participants:

#### **Arthritis**

Kenneth D. Brandt, M.D. Robert A. Greenwald, M.D. Stephen M. Krane, M.D.

#### Periodontal

Lorne M. Golub, D.M.D. Christopher McCulloch, D.D.S., Ph.D. Timo Sorsa, D.D.S., Ph.D.

#### Cancer

Henry Brem, M.D.
Peter D. Brown, D.Phil.
Andrew J.P. Docherty, Ph.D.
William Stetler-Stevenson, M.D.
Stanley Zucker, M.D.

## Saturday January 22, 1994

7:30-10:30 AM Registration

8:00-10:00 AM Session VI

#### Selected Papers from Abstracts

Session Chair:

Robert A. Greenwald, M.D. Conference Chair

Each paper includes 10 minutes for presentation followed by 5 minutes for discussion.

10:00-10:30 AM Intermission

10:30 AM-12:45 PM Session VII

#### Other Inhibitors

Session Chair:

Sanford R. Simon, Ph.D.

Departments of Biochemistry and Pathology
State University of New York at Stony Brook
Stony Brook, New York

Each paper includes 10 minutes for presentation followed by 5 minutes for discussion.

10:30 28. Anthracycline Inhibition of MMPs

Michael E. Maragoudakis, Ph.D. Department of Pharmacology University of Patras Medical School Patras, Greece

10:45 29. Interaction of MMPs with α2-Macroglobulin

Hideaki Nagase, Ph.D.
Department of Biochemistry and Molecular Biology
University of Kansas Medical Center
Kansas City, Kansas

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## 11:00 30. Effect of MMPs on Elastase Inhibitors Sanford R. Simon, Ph.D. Session Chair

11:15 31. Low Molecular Weight Inhibitors in Corneal Ulceration

Dick Galardy, Ph.D.

Glycomed, Inc.

Alameda, California

11:30 32. Monoclonal Antibodies to Human 92kDa Gelatinase

Deborah L. French, Ph.D.
Department of Pathology
State University of New York at Stony Brook
Stony Brook, New York

11:45 33. Retinoids

Constance Brinckerhoff, Ph.D. Department of Biochemistry Dartmouth Medical School Hanover, New Hampshire

#### 12:00-12:45 PM General Discussion

12:45 PM Closing Remarks

Robert A. Greenwald, M.D. Conference Chair Lorne M. Golub, D.M.D. Conference Chair

7:00 PM End of Conference Subscription Banquet \$35 per person

(Refer to the Conference Registration Form in the back of the program for payment details.)

#### **SPEAKERS**

Banda, M.J., 8 Birkedal-Hansen, H., 10 Brandt, K.D., 19 Brem, H., 27 Brinckerhoff, C., 33 Brown, P.D., 22 Cawston, T.E., 9 Ciancio, S.G., 14 De Clerck, Y.A., 23 Denhardt, D., 7 Docherty, A.J.P., 24 French, D.L., 32 Galardy, D., 31 Golub, L.M., 12 Gray, R.D., 20 Greenwald, R.A., 18 Krane, S.M., 1 Lark, M.W., 11 Maragoudakis, M.E., 28 Matrisian, L., 5 McCulloch, C., 16 Murphy, G., 4 Nagase, H., 29 Overall, C.M., 6 Quigley, J.P., 21 Rifkin, B.R., 17 Simon, S.R., 30 Sorsa, T., 13 Stetler-Stevenson, W., 25 Uitto, V.J., 15 Van Wart, H., 3 Woessner, J.F., 2 Zucker, S., 26

#### SESSION CHAIRS

Session I: Brinckerhoff, C.
Session II: Murphy, G.
Session IV: Golub, L.M.
Session V: Quigley, J.P.
Session VI: Greenwald, R.A.
Session VII: Simon, S.R.

#### **CONFERENCE REGISTRATION FEE INCLUDES**

- Welcome Reception (January 19)
- Entrance to Scientific Sessions
- Coffee/Tea (During Intermissions)
- Luncheons (January 20 and 21)
- Entrance to Poster Session/Reception
- Conference Materials
- Continuing Medical Education Credits

#### SUBSCRIPTION BANQUET

A separate subscription fee of \$35 is required for the Saturday, January 22, Conference Banquet. For payment details, please refer to the Conference Registration Form, which follows. Payment is required prior to the meeting.

#### REFUNDS

Refund requests postmarked on or before December 13 will be issued less an administrative fee of \$25.00. Absolutely no refunds will be honored after this date.

#### **REGISTRATION HOURS**

The Conference Registration Desk will be open on Wednesday, January 19, 1994 from 5:00 to 8:30 PM in the Garden. Please check in at this desk to pick up your registration materials. The Conference Registration Desk will re-open on Thursday, January 20, at 8:00 AM and will remain open for the duration of the conference.

#### MEMBERSHIP IN THE NEW YORK ACADEMY OF SCIENCES

As a participant in this conference, you will be offered the opportunity to become a member of the New York Academy of Sciences, which links more than 38,000 scientists across the United States and in more than 100 countries around the world. These members represent all fields of science, engineering and medicine. The Academy aims to advance science and science education, the dissemination of scientific information, the human rights of scientists, understanding of issues in science and technology policy and opportunity for women and minority groups in science.

Academy members enjoy a number of direct benefits, including:

- Reduced registration fees for about 20 major Academy conferences each year.
- One free volume of the Annals of The New York Academy of Sciences each year, and additional volumes at nominal prices.
- A subscription to the Academy's award-winning bimonthly magazine, The Sciences.
- The opportunity to participate in the activities of any of the Academy's 25 scientific sections.

For further information about Academy membership, inquire at the conference registration desk or call (212) 838-0230 or (800) 843-6927.

#### CONFERENCE REGISTRATION FORM

Inhibition of Matrix Metalloproteinases: Therapeutic Potential January 19-22, 1994

Return this form with your full payment to:

Conference Department
New York Academy of Sciences
2 East 63rd Street
New York, New York 10021
Tel. (212) 838-0230 Fax (212) 838-5640
Please type or print all information.

First Name	· ·	Last Name	-	-
Degree(s)		, , , , , , , , , , , , , , , , , , ,		-
Affiliation				-
Mailing Address				
City	State	Country	Zip	_
Telephone Number	Fax Number			-

#### CONFERENCE REGISTRATION FEES

(Check correct category and fee)

Poster Presenters pay full registration fees. Registration is waived for Speakers and Session Chairs only. Note: Conference Banquet is by separate Subscription. Remit payment with Conference Registration.

Conference registration postmarked:

	Before 12/13/93	After 12/13/93	Amount Enclosed
NYAS Member	\$295	\$320	
Membership No			
Nonmember	\$395	\$420	
Resident/Fellow	\$245	\$245	
Student or Emeritus Member	\$170	\$170	
Daily Registration	\$150	\$150	· · · · · · · · · · · · · · · · · · ·
Date(s)			
Subscription Banquet 1/22*	\$ 35	\$ 35	
TOTAL REGISTRATION FEE EN	NCLOSED		\$

<sup>\*</sup>The Saturday, January 22, Banquet is by separate subscription. If you wish to attend the banquet, please enclose the fee with your conference registration. Payment is required prior to the meeting.

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ADDITIONAL REGISTRATION INFORMATION
Students must have their department chair sign this form to qualify for
the student registration fee.
Signature
Department and Title
REFUNDS
Refund requests postmarked on or before December 13 will be issued less an administrative fee of \$25.00. Absolutely no refunds will be honored after this date.
METHOD OF PAYMENT
U.S. Bank Check made payable to: The New York Academy of Sciences
or
Credit Card (Please complete all information)
MasterCard ☐ VISA ☐ American Express ☐
Credit Card Number
Expiration Date
Name of Cardholder (Please Print)
Cardholder Signature
HOW DID YOU LEARN OF THIS MEETING?
☐ NYAS Conference Schedule
☐ Conference Flyer
☐ From a colleague
Advertisement in (Please Specify)
Other (Please Specify)

#### HOTEL ACCOMMODATION FORM

Reservations must be received by December 13, 1993.

Mail directly to:

Reservations Manager Wyndham Harbour Island Hotel 725 S. Harbour Island Boulevard Tampa, Florida 33602 Telephone: (813) 229-5000 Fax: (813) 229-5322

#### THE NEW YORK ACADEMY OF SCIENCES

Inhibition of Matrix Metalloproteinases: Therapeutic Potential January 19-22, 1994

Please type or print all information.

First Name		Last Name	
(Sharing With) Na	me		
Affiliation		-	
Mailing Address			
City	State	Country	Zip Code
Telephone Numbe	Г	Fax Number	
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Number of people	in the room_		
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\$ 105 D	ouble/Double	(2 persons/2 beds)	
(Room charge exe Taxes.)	cludes 10.5%	Florida State Sales a	nd Occupancy

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Confirmation requested  Other special requests (Special requests cannot be confirmed.)  CHECK-IN TIME: 3:00 PM CHECK-OUT TIME: 12:00 Noon  RESERVATIONS RECEIVED AFTER DECEMBER 13, 1993 WILL BE ACCEPTED ON A SPACE AVAILABLE BASIS AND MAY BE SUBJECT TO A HIGHER RATE.  Reservations are guaranteed with one night's deposit by check or credit card. In order to receive a refund, cancellations must be made by 12 noon, one day prior to your arrival date.  Please guarantee my reservation by:  Reservation guaranteed by one night's deposit (enclosed)  Reservation guaranteed by my credit card (American Express, Diner's Club, VISA, MasterCard or Discover)  Credit Card Name  Credit Card Number  Expiration Date  Name of Cardholder  Cardholder Signature  FOR GUARANTEED RESERVATIONS I understand that I am liable for one night's deposit, which will be deducted from my deposit or billed through my credit card in the event that I do not cancel by 12:00 noon, one day prior to the arrival date indicated.	Complete the following if applicable:
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Signature	I understand that I am liable for one night's deposit, which will be deducted from my deposit or billed through my credit card in the event that I do not cancel by 12:00 noon, one day prior to the arrival date indicated.

#### TENTATIVE CONFERENCE SCHEDULE

If you would like information about any of the conferences below, please circle the names of the conferences and return this page to The New York Academy of Sciences with your name and address on the reverse side. Program and registration information will be mailed approximately three months before each conference. You need not register for the conference to request information.

## BIOLOGY OF $\alpha_2\text{-}MACROGLOBULIN, ITS RECEPTOR AND RELATED PROTEINS$

OCTOBER 11-14, 1993, MARINE BIOLOGICAL LABORATORY, WOODS HOLE, MASSACHUSETTS

Chairs: Wolfgang Borth, Mount Sinai Medical Center; Richard D. Feinman, SUNY Health Science Center at Brooklyn; Steven L. Gonias, University of Virginia Health Sciences Center; James P. Quigley, SUNY Health Sciences Center at Stony Brook; Dudley K. Strickland, American Red Cross

## DNA: THE DOUBLE HELIX-FORTY YEARS: PERSPECTIVE AND PROSPECTIVE

OCTOBER 13-16, 1993, CHICAGO MARRIOTT DOWNTOWN, CHICAGO, ILLINOIS

Chair: Donald A. Chambers, The University of Illinois at Chicago

#### CELLULAR GENERATION, TRANSPORT AND EFFECTS OF EICOSANOIDS: BIOLOGICAL ROLES AND PHARMACOLOGICAL INTERVENTIONS

NOVEMBER 14-17, 1993, THE GRAND HOTEL, STOCKHOLM, SWEDEN

Chairs: Edward J. Goetzl, University of California, San Francisco; Marek Rola-Pleszczynski, University of Sherbrooke Faculty of Medicine, Canada

#### **CORONARY ARTERY SPASM**

FEBRUARY 22-25, 1994, NEW YORK HILTON AND TOWERS, NEW YORK

Chair: Stanley Kalsner, The City University of New York Medical School

## BRAIN CORTICOSTEROID RECEPTORS: STUDIES ON MECHANISM, FUNCTION AND NEUROTOXICITY OF CORTICOSTEROID ACTION

MARCH 2-5, 1994, CRYSTAL GATEWAY MARRIOTT, ARLINGTON, VIRGINIA

Chairs: E.R. de Kloet, Leiden/Amsterdam Center for Drug Research, The Netherlands; Efrain C. Azmitia, New York University; Philip W. Landfield, University of Kentucky

#### T-CELL RECEPTOR USE IN HUMAN AUTOIMMUNE DISEASES

APRIL 18-21, 1994, DOUBLETREE HOTEL AT HORTON PLAZA, SAN DIEGO, CALIFORNIA

Chairs: Joel Buxbaum, New York University School of Medicine; Mark M. Davis, Howard Hughes Medical Institute, Stanford University

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Inhibition of Matrix Metalloproteinases: Therapeutic Potential January 19-22, 1994

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